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March 8, 1993

Donna Tisdale, Chair
Boulevard Sponsor Group
P.O. Box 1272
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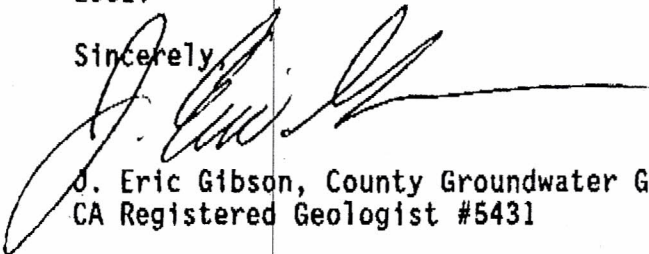
GROUNDWATER MONITORING RESULTS - BOULEVARD/PROPOSED CAMPO LANDFILL AREA

Attached are the results of the recent (March 4, 1993) groundwater level monitoring that I completed in the area. Thank you for taking the time to obtain permission from the local well owners for this monitoring, this saved many hours of my time. I would appreciate your further assistance in completing the establishment of a regional groundwater level monitoring program in the Boulevard area.

The shallow groundwater levels recorded are indicative of the aquifer being at storage capacity. These conditions are consistent with other monitoring results within the portions of the County underlain by the fractured, crystalline bedrock aquifer. However, I was impressed with the high number, areal extent (in both topographically high and low areas), and flow rates of the springs in the area.

If you have any questions regarding this report, please contact me at 694-2952.

Sincerely,



J. Eric Gibson, County Groundwater Geologist
CA Registered Geologist #5431



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March 8, 1993

TO: File

FROM: Eric Gibson, County Groundwater Geologist *EG*

GROUNDWATER LEVEL MONITORING - BOULEVARD/PROPOSED CAMPO LANDFILL AREA

A round of groundwater levels were collected in the subject area on March 4, 1993. These levels were collected in conjunction with the groundwater level monitoring program which is mandated within the County of San Diego Groundwater Ordinance #7994. Monitoring was initiated because of a request of the Boulevard Sponsor Group Chairperson's request to document groundwater levels. Staff has also focused on expanding the monitoring program this winter as a result of the heavy rainfall season of 92/93.

Groundwater levels were collected by myself using either the ACTATTM Corporation, Model 300 Olympic Well Probe or by direct measurement with a retractable tape measure where permitted by well access and shallow water table. The top of the well casing was utilized as a datum for water level measurements. The accuracy of these measurements are estimated to be +/- 0.1 feet. Additionally, in order to determine groundwater levels in relation to land surface, the casing height in relation to the ground surface was also measured by direct measurement. At well locations where the land surface was uneven measurements were tied to the estimated average land surface level, with an accuracy estimated at +/- 0.2 feet. Several flowing artesian wells were encountered during monitoring. Because the seals in these wells were not water-tight (under artesian pressure) and were not fitted with a pressure gauge, no accurate head value could be taken. Therefore, all flowing artesian water levels noted should be regarded as the minimum possible groundwater level and actual levels may be substantially higher.

Results of the monitoring are presented in Table 1. A location map of the monitored wells is presented in Figure 1. A total of 25 wells were measured and water levels varied from 1.2 feet above land surface (flowing artesian) to 31.5 feet below land surface (BLS). Groundwater levels in all but 5 of the 25 monitored wells were less than 4 feet BLS. Surfacing groundwater (springs) was noted virtually everywhere throughout the monitoring area including both topographically high and low areas. Rainfall had not occurred for over a week prior to monitoring so that the surface water noted is virtually all surfacing groundwater.

BOULEVARD MONITORING RESULTS

March 4, 1993

#	WELL NAME	WELL PUMPED?	EIS I.D. # *	CASING HEIGHT	WATER LEVEL BTC**	WATER LEVEL BLS***
1	Morningstar Ranch - Corral Well	YES	4	1.0	1.2	0.2
2	Morningstar Ranch - Playhouse Well	YES	3	3.2	5.0	1.8
3	Morningstar Ranch - Southeast Pasture	NO	N/A	1.0	0.0	-1.0
4	Summer's Domestic	YES	19	0.5	1.1	0.6
5	Morningstar Ranch - Handdug	NO	1	1.6	5.5	3.9
6	Morningstar Ranch - Cased Well Within Handdug	NO	1	1.8	5.9	4.1
7	Morningstar Ranch - Windmill (North Pasture)	YES	5	0.8	3.8	3.0
8	House Well	YES	14	0.3	3.2	2.9
9	Morningstar Ranch - North of Tierra Real Ln.	NO	N/A	0.3	1.0	0.7
10	Utz Well	NO	N/A	1.2	2.4	1.2
11	Malley Well	YES	N/A	1.7	2.4	0.7
12		YES	N/A	1.6	2.4	0.8
13	Johnson Swine Farm	YES	25	1.2	3.2	2.0
14	Polen Well	YES	26	1.2	1.2	0.0
15	Windmill	NO	13	1.6	26.6	25.0
16	Espinoza	YES	22	1.6	33.1	31.5
17	Tucker	YES	11	2.3	4.8	2.5
18	Harris	YES	N/A	0.4	17.2	16.8
19	Albam Handdug	YES	N/A	2.3	2.2	-0.1
20	Albam Well	NO	N/A	1.2	0.0	-1.2
21	Gonzales	YES	N/A	3.7	4.7	1.0
22	McGrew - Melowest Ranch	YES	N/A	1.8	3.2	1.4
23		NO	31	5.5	12.0	6.5
24	Haselton Ranch	NO	N/A	2.3	8.0	5.7
25	Haselton Ranch	YES	N/A	0.6	0.6	0.0

All Measurements in feet

* - Well I.D. as noted in Figure 3.3.2 (pg. 3-31) of the Final Environmental Impact Statement for the Campo Solid Waste Management Project (11/92).

** - BTC - Below Top of Well Casing

*** - BLS - Below Land Surface, a negative number indicates that the well was flowing artesian. Accurate water level measurements within flowing artesian wells were not possible, therefore the figure represents the minimum water level.

N/A - Well Not monitored during EIS.

